

TECHNICAL DATA SHEET (TDS)

Product	ARCHER	Document	Technical Data Sheet
Category	Salinity corrector and calcium-based soil amendment	Code	CEON-TDS-71-R05
Catalogue source	CEON catalogue PDF page 73	Status	Technical publication copy - final regulatory review required

1. Product identity and technical positioning

A calcium-lignosulphonate salinity corrector designed for saline soils and irrigation water. It supports cation exchange, sodium displacement, soil aggregation and improved root-zone conditions.

Intended technical function

Salinity corrector and calcium-based soil amendment.

Physical form

Liquid concentrate. Appearance, density, pH, moisture and particle-size values are controlled by the approved batch specification and shall be reported on the batch COA.

2. Guaranteed analysis

Parameter	Specification
Total Nitrogen (N)	4% w/v
Water-soluble Calcium Oxide (CaO)	10% w/v
Calcium oxide complexed with lignosulphonate	10% w/v

Quality-control note

Declared nutrient or active-content values are catalogue specifications. Final release requires identity, appearance and relevant analytical checks against the approved master specification. No batch result is implied by this TDS.

3. Agronomic benefits and mode of use

- Supplies complexed calcium to the soil exchange complex.
- Supports displacement and leaching of exchangeable sodium.
- Improves soil structure, aeration, infiltration and nutrient availability.
- Helps manage irrigation-water and soil salinity stress.
- Supports root activity and crop performance in salt-affected soils.

4. Application programme

- Drip irrigation: 15-20 L/ha; up to 50 L/ha in extreme salinity.
- Typical crop guidance: citrus/fruit trees 10-16 L/ha; vegetables 5-8 L/ha; ornamentals 3-6 L/ha; tropical fruit 9-14 L/ha; olives/vines 8-10 L/ha.
- Crop-cycle guidance: fertigation 30-80 L/ha; flood irrigation 60-120 L/ha.
- Maintenance guidance in irrigation water: 20-40 mL per m³, subject to water and soil analysis.

Application principles

- Calibrate injection or spray equipment before use.
- Base the final rate on crop, growth stage, water quality, soil/leaf analysis, climatic conditions and local agronomic advice.
- Do not exceed the catalogue rate or the legal label of any tank-mix partner.
- Ensure uniform distribution and adequate water volume for the intended application.

5. Compatibility and tank-mixing

Conduct a jar test before tank mixing. Avoid uncontrolled mixing with strongly acidic, alkaline or phosphate-rich products. Base final rate on soil EC, sodium status, water quality and agronomic advice.

Recommended sequence

- Fill the clean tank partly with water and start agitation.
- Add water conditioners first where applicable, followed by dry products, suspension products, soluble concentrates and emulsifiable concentrates according to partner labels.
- Add organosilicone adjuvants near the end of filling.
- Complete with water and maintain appropriate agitation.

6. Packaging, storage and handling

Packaging: 1 L, 5 L, 10 L and 20 L commercial packs.

- Keep in the original, tightly closed and correctly labelled container.
- Store in a cool, dry and ventilated area away from direct sunlight, frost, excessive heat and incompatible materials.
- Keep biological products away from disinfectants and conditions that reduce viability.
- Prevent contamination of food, feed, seed and drinking water.
- Use appropriate gloves and eye protection during handling.

7. Technical limitations

- Performance depends on correct diagnosis, dose, timing, water quality and application coverage.
- Catalogue benefits are technical positioning statements and are not a guarantee of yield.
- Pesticidal or biological-control uses are subject to local registration, approved label and maximum-residue/worker-safety requirements.
- This document does not replace local legal labelling, product registration, crop-protection labels or professional agronomic advice.

8. Document control

Source reference: CEON Products Catalogue, PDF page 73. This Rev.05 document expands the catalogue information into a website/distributor technical format. Regulatory classification, local-language label, shelf life and market-specific claims must be approved before commercial issue.